

Title (en)  
CYSTEINE PROTEASE INHIBITORS FOR THE TREATMENT OF PARASITIC DISEASES

Title (de)  
CYSTEINPROTEASEHEMMER ZUR BEHANDLUNG PARASITÄRER ERKRANKUNGEN

Title (fr)  
INHIBITEURS DE CYSTÉINE-PROTÉASES POUR LE TRAITEMENT DE MALADIES PARASITAIRES

Publication  
**EP 2225196 A4 20120229 (EN)**

Application  
**EP 08853988 A 20081126**

Priority  
• CA 2008002071 W 20081126  
• US 474707 P 20071129

Abstract (en)  
[origin: WO2009067797A1] Several parasites responsible for mammalian diseases are dependent on cysteine protease for various life-cycle functions. Inhibition or decreasing function of these proteases can be useful in the treatment and/or prevention of these parasitic diseases including; toxoplasmosis, malaria, African trypanosomiasis, Chagas disease, leishmaniasis, schistosomiasis, amebiasis, giardiasis, clonorchiasis, opisthorchiasis, paragonimiasis, fasciolopsiasis, lymphatic filariasis, onchocerciasis, dracunculiasis, ascariasis, trichuriasis, strongyloidiasis, trichostrongylasis, trichomoniasis or cestodiasis. Compounds of formula I of the invention are capable of treating and/or preventing the above-identified diseases:

IPC 8 full level  
**C07C 31/32** (2006.01); **A61K 31/277** (2006.01); **A61P 33/00** (2006.01); **C07C 255/60** (2006.01); **C07C 323/29** (2006.01); **C07D 207/335** (2006.01); **C07D 213/38** (2006.01); **C07D 213/57** (2006.01); **C07D 213/89** (2006.01); **C07D 271/06** (2006.01); **C07D 295/135** (2006.01); **C07D 295/185** (2006.01)

CPC (source: EP US)  
**A61K 31/277** (2013.01 - EP US); **A61K 31/4418** (2013.01 - EP US); **A61K 31/5375** (2013.01 - EP US); **A61K 45/06** (2013.01 - US); **A61P 33/00** (2017.12 - EP); **A61P 33/02** (2017.12 - EP); **A61P 33/04** (2017.12 - EP); **A61P 33/06** (2017.12 - EP); **A61P 33/10** (2017.12 - EP); **A61P 33/12** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07C 255/44** (2013.01 - EP US); **C07C 255/46** (2013.01 - EP US); **C07C 255/60** (2013.01 - US); **C07C 311/37** (2013.01 - EP US); **C07C 317/32** (2013.01 - EP US); **C07C 323/32** (2013.01 - EP US); **C07D 207/335** (2013.01 - EP US); **C07D 213/36** (2013.01 - EP US); **C07D 213/38** (2013.01 - EP US); **C07D 213/57** (2013.01 - EP US); **C07D 213/89** (2013.01 - EP US); **C07D 271/06** (2013.01 - EP US); **C07D 295/135** (2013.01 - EP US); **C07D 295/185** (2013.01 - EP US); **C07D 295/192** (2013.01 - EP US); **C07C 2601/02** (2017.04 - EP US); **Y02A 50/30** (2017.12 - EP US)

Citation (search report)  
• [XII] CA 2477657 A1 20030918 - MERCK FROSST CANADA INC [CA], et al  
• [XII] WO 2007012180 A1 20070201 - MERCK FROSST CANADA LTD [CA], et al  
• See references of WO 2009067797A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009067797 A1 20090604**; AU 2008329515 A1 20090604; AU 2008329515 B2 20130905; CA 2706746 A1 20090604; CA 2706746 C 20160223; EP 2225196 A1 20100908; EP 2225196 A4 20120229; EP 2225196 B1 20150128; ES 2533875 T3 20150415; JP 2011504883 A 20110217; JP 5511676 B2 20140604; US 2010305056 A1 20101202; US 2013244962 A1 20130919; US 8642799 B2 20140204

DOCDB simple family (application)  
**CA 2008002071 W 20081126**; AU 2008329515 A 20081126; CA 2706746 A 20081126; EP 08853988 A 20081126; ES 08853988 T 20081126; JP 2010535184 A 20081126; US 201313861046 A 20130411; US 74507008 A 20081126